

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231
www.uspto.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/042,607	01/09/2002	Tetsuji Suzuki	KYO.P0011	7034	
75	590 04/03/2003				
RENNER, KENNER, GREIVE, BOBAK, TAYLOR & WEBER Fourth Floor First National Tower			EXAMINER		
			KOVAL, MELISSA J		
Akron, OH 44	308-1456		ART UNIT	PAPER NUMBER	
			2851		
			DATE MAILED: 04/03/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application f	No.	Applicant(s)	h			
Office Action Summary		10/042,607		SUZUKI ET AL.				
		Examiner		Art Unit				
		Melissa J Kov	ral	2851				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)	Responsive to communication(s) filed on							
2a)□	This action is FINAL . 2b) This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims		,, .					
4)🖂	4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.							
4a) Of the above claim(s) 2,7-10 and 13-20 is/are withdrawn from consideration.								
5)⊠ Claim(s) <u>6 and 12</u> is/are allowed.								
6)□	6) Claim(s) is/are rejected.							
7)	Claim(s) 1, 3-5, and 11 is/are objected to.							
•	Claim(s) are subject to restriction and/or	r election requ	iirement.					
Application Papers								
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on <u>09 January 2002</u> is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)	⊠ All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachmen								
2) Notic	ce of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u>	4) 5) . 6)	Notice of Informal F	/ (PTO-413) Paper No Patent Application (PT				

DETAILED ACTION

This application is in condition for allowance except for the following formal matters:

Election/Restrictions

Applicant's election without traverse of claims 1, 3, 4, 5, 6, 11 and 12 in Paper No. 5 is acknowledged.

Claims 2, 7-10, and 13-20 are non-elected.

A complete reply this Office Action must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Application/Control Number: 10/042,607

Art Unit: 2851

The Examiner refers to Japanese Unexamined Patent Publication No.9-54213 disclosed on page 3 of the specification.

Specification

Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

Page 3

Art Unit: 2851

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract of the disclosure is objected to because the abstract exceeds 150 words. Correction is required. See MPEP § 608.01(b).

Claim Objections

Claims 1 and 3-5 are objected to because of the following informalities: In claim 1, the phrase "wherein at least the remaining converters and three of the first to the fourth splitters are joined each other to form an optical joint component with a gap between the remaining one splitter" is awkwardly worded because a word(s) seems to be missing. A similar phrase appears in claim 11: "wherein at least the remaining converters and three of the first to the fourth splitters are joined each other to form an optical joint component with a gap between the remaining one splitter".

Claims 3-5 are objected to as they depend from already objected to claim 1.

Appropriate correction is required.

Claim Objections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 11 are objected to under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter

Art Unit: 2851

which applicant regards as the invention. With respect to claim 1, and the phrase "wherein at least the remaining converters and three of the first to the fourth splitters are joined each other to form an optical joint component with a gap between the remaining one splitter". The claim language is not clear as to the specific location of the gap with respect to the other elements comprising the device. For instance, is the gap located within the remaining one splitter, or is it located between the remaining one splitter and an optical joint component formed by the remaining converters and the three of the first to the fourth splitters? The examiner presumes the latter and suggests that the applicant amend the claims to make the latter arrangement clear in the claim language. The same arguments apply to claim 11.

Allowable Subject Matter

Claims 6 and 12 are allowed.

Claims 1, 3-5 and 11 stand objected to, but would be allowable if rewritten or amended to overcome the objections set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter: With respect to claims 1 and 11, the arrangement of wavelength-selective polarizing converters to the first to fourth polarizing beam splitters, such that one converter is placed at the light-incident side of the first splitter and at the light-emitting side of the fourth splitter, and furthermore wherein the remaining converters and three of the first to the fourth splitters are joined to each other to form an optical joint

Art Unit: 2851

component having a gap separating the optical joint component from the remaining one splitter, is neither shown nor suggested by the prior art of record. With respect to claims 6 and 12, the relationship of the opto-elastic constants for the first to the fourth splitters, are neither shown nor suggested by the prior art of record.

Conclusion

The art made of record and not relied upon is considered pertinent to applicant's disclosure.

Huang et al. U.S. Patent 6,309,071 B1 teaches a liquid crystal projection display system.

Ikeda et al. U.S. 6,419,362 B1 teaches a liquid crystal projection apparatus.

Lin U.S. Patent Application Publication US 2002/0105619 A1 teaches an on color management system of liquid crystal-display projector.

Prosecution on the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa J Koval whose telephone number is (703) 308-4801. The examiner can normally be reached on Monday through Friday.

Application/Control Number: 10/042,607

Art Unit: 2851

Page 7

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russell Adams can be reached on Monday through Thursday at (703) 308-2847. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

MJK March 27, 2003

'RUSSELL ADAMS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800